WSDOT Ferries Division Reservation System Pre-Design Status Report

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Background & Legislative Direction

2009 Final Long Range Plan included recommendation for use of reservations

 Proposed a vehicle reservation system as the primary strategy for spreading peak period demand and offering high quality services with the smallest practical terminal holding areas.

2009-11 Budget contained proviso language related to potential implementation of a reservation system

- Funding provided for Ferries to begin process of developing a reservation system.
- Initial effort is focused on completing a pre-design study prior to the 2010 Legislative session.
- Compatibility of the WSF Electronic Fare System (EFS), proposed reservation system, and implementation of smart card must be evaluated as part of the pre-design study.

The Pre-Design Report

Purpose of the Pre-design Study

- Gain a clear understanding of facility constraints and options for addressing growing vehicle demand during peak times.
- Analysis of options and costs.
- Describe the project including programmatic, qualitative, financial, and schedule requirements.
- Identifies project limitations and risks.
- Decision-making tool for the Legislature.

The Final Draft Pre-design Study will be completed by December 15, 2009.

Guiding Principles for Pre-Design Effort

System needs to work for customers and ferry communities

- Easy to use (at the point of booking and upon arrival at terminals).
- Meets the needs of different customer types (commuters, frequent riders, freight, recreational users).
- Provides customers certainty with respect to which sailing they can board.
- Provides flexibility to change and cancel reservations.
- Provides options to customers by giving them real time information about their preferred sailing.
- Reduces queuing outside terminals; improve traffic flow around terminals.

System needs to work for Ferries and improve efficiencies

- Enables Ferries to spread demand for peak sailings to times when there is available capacity.
- Maximizes use of existing assets.
- Serves more customers over time while minimizing capital costs without significantly increasing operating costs.
- Integrates with fare collection and WSDOT technologies.
- Potential to increase ridership by providing customer certainty.

General Approach to Pre-Design Effort

Learn from our own experience and from the experiences of other systems

- Reviewed recent experience at Port Townsend-Keystone and Anacortes-Sidney B.C. to see what is working and what is not.
- Extensive outreach to other systems to understand how reservations work, where they are successful, and potential pitfalls.

Develop conceptual design based on how customers really use the system and make travel decisions

- Engage with a representative group of customers and community interests (Edmonds-Kingston Partnership Group).
- Make use of WSTC survey data from 2008 and augment as needed.

Focus on options and evaluate relative costs and benefits

 Clearly lay out where choices exist and what the key tradeoffs are between options.

Identify technology options that already exist

Issued a Request for Information from system developers and vendors.

Ferries Division Experience with Reservations

Anacortes-Sidney

Successfully operating a reservation system on a small route for many years.

San Juan Islands Commercial Vehicle Reservations

 Successfully operating a reservation with limited participation in the San Juan Islands.

Port Townsend - Keystone

- Recent experience with reservations has resulted in several lessons learned:
 - Without a deposit for a reservation, no show rates are high.
 - Reserving a limited portion of the deck can be confusing to customers when the website shows that reservations are full.
 - Terminal staff and customers need better, more frequent information about manifests and capacity.
 - Combining the reservation confirmation and ticket would improve vehicle processing.
 - Customers need more information about how the system works.
 - Terminal configuration is an important element in a vehicle reservation system.

Ferries Has Reached Out To Operators Worldwide

Experience Elsewhere

- Most large vehicle ferry systems in the world have a reservation system.
- For "recreational routes", there are many comparable systems to learn from.
- While there are no direct comparables for "commuter routes", many systems have experience with frequent users.

Key Findings

- Other systems aggressively pursue freight customers and have implemented a number of freight incentives.
- Other high volume systems have more terminal capacity than Ferries' facilities – this poses unique operating challenges.
- Terminal managers have a great deal of authority and flexibility to manage the dock and respond in real time to changes in traffic flow.

Learning from Other Systems

- We will continue to seek input from individuals and organizations that have first-hand experience implementing reservation systems for ferry service.
- Investigating the practicality of incorporating an expert review panel into predesign effort.

Request for Information

- To better understand the technology options available, a Request for Information (RFI) was issued in May 2009.
- In late July, Ferries received six responses, five of which addressed the issues in the RFI and four of which have software currently in use by a ferry system somewhere in the world.
- Responses varied in their detail, however they all provided useful information for the evaluation of options, such as:
 - System features and capabilities.
 - Ability to integrate with existing Ferries technology, such as the fare collection system.
 - Customer service issues and options.
 - Some cost information, though not very detailed.
 - References for current customers.
- All of the current systems were described as being very flexible and can be customized to meet customer requirements.

WSF Technical Work Teams

- Reservations will change how Ferries operates across many departments.
- Senior staff from all major departments are engaged in the predesign effort to ensure good coordination and thorough review.
- Efforts has been organized into three technical teams:
 - Business Rules Team: working on the basic elements of the system including how much of the boat to reserve, how customers will make reservations, what to do in exception situations.
 - Vehicle Processing/Terminal Team: working on how reservations can be supported through vehicle processing, terminal operations and possible modifications.
 - Information Technology/Back Office Team: working on how to support reservations, implement the critical customer interface elements (i.e. online, phone, kiosk, etc ...) and assess the development costs and potential staffing requirements.

Key Factors for Success

Communication and Education

- Prior to any implementation, communicate with and educate customer base on how to use the system.
- While the customer is booking a reservation or making an inquiry, provide real time information about available capacity.
- At and leading to terminals, provide status updates and information.
- If service is disrupted, communicate with customers about options.

Performance Metrics and System Adaptability

- Identify key performance metrics.
- System needs to be flexible and adapt to actual experience.

Good Strategies for Service Disruptions and Other Exceptions

Identify contingency plans and operating procedures.

High Degree of Predictability and Consistency for Customers

- Keep policies simple and consistent across the system where possible.
- Recognize route-level differences where appropriate.

Public Outreach

Community Partnership Group Formed

- Representation from the Edmonds-Kingston route, which is comprised on a cross section of vehicle customers, including commuters, regular riders, commercial and recreational interests.
- Seven total meetings between July and December.
- Providing comment and feedback on multiple issues.
- Public welcome to attend meetings and provide comment.

Partnership Group Objectives

- Learn how our customers make travel decisions.
- Understand how reservation policies affect customers.
- Input on business rule options and potential customer and community impacts.

Other Public Outreach

- November public meetings.
- Website includes Partnership Group materials and opportunity to comment.
- Integrate recent customer survey efforts.

Next Steps

- Complete analysis for pre-design study, including cost benefit analysis.
- Additional public input, including November public meetings.
- Develop recommendations for the pre-design.
- Final Draft Pre-design report due to JTC by December 15, 2009.

Questions?

For more information on the Reservation System Pre-design Study, please contact:

David Moseley, Assistant Secretary, Ferries Division, at moseled@wsdot.wa.gov.

For Partnership Group materials and information: http://www.wsdot.wa.gov/ferries/planning/vehiclereservations.htm



